

Antenna Admission
Book

Applicable Model	Q8 PRO
Custome	Shenzhen Peicheng Technology Co., Ltd.

Specifications
Description

	Product Content	Specification	Customer Material Code
Specificati Description	WiFi Antenna	FPC/Black/Character QM-QS PRO-GWB-V1.0 + Cable 1.13*55mm + Conductive Fabric	Q9000G001

Change History

Serial number	Date	Version	Summary of Changes
1	2026-01-30	V1.0	<u>New Project</u>
2			
3			

Supplier Sample
Confirmation

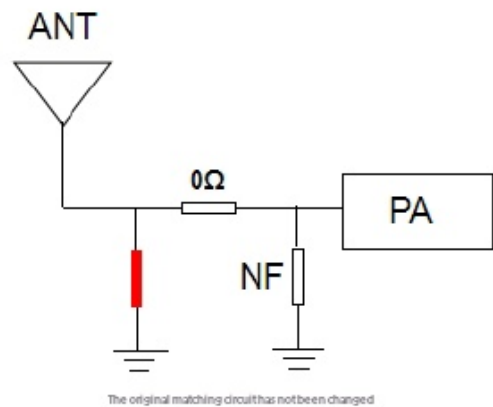
R&D	Structure	Review	Judgment
			PASS map
			FAIL ☐

Customer Sample
Confirmation

Electronic	Structure	Project	Purchasing	Quality	Review

Reason for Rejection or Other Notes:

1, Matching Circuit - WIFI Antenna



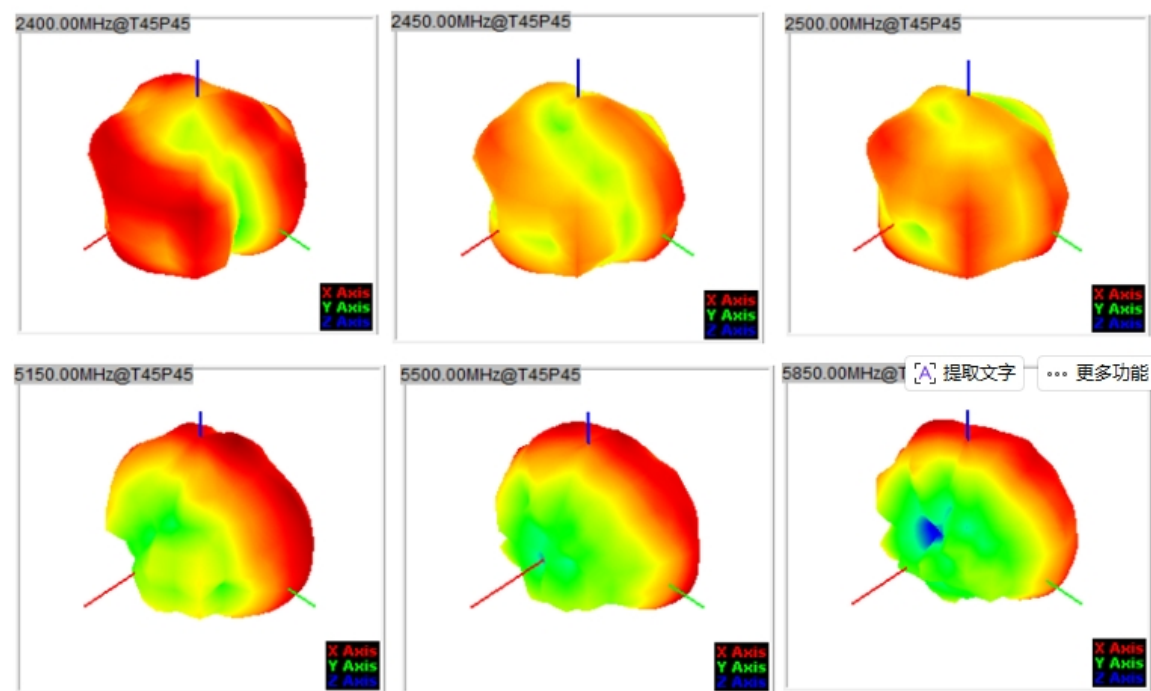
2, Active Test Data

WiFi 2400-2500MHz 802.11b 11Mbps			
Channel	1	6	11
TRP	13.52	13.84	13.42
TIS	-80.8	-81.71	-81.56
WiFi 5000-5800MHz 802.11a 54Mbps			
Channel	36	161	165
TRP	10.37	10.41	10.57
TIS	-70.25	-70.97	-70.6

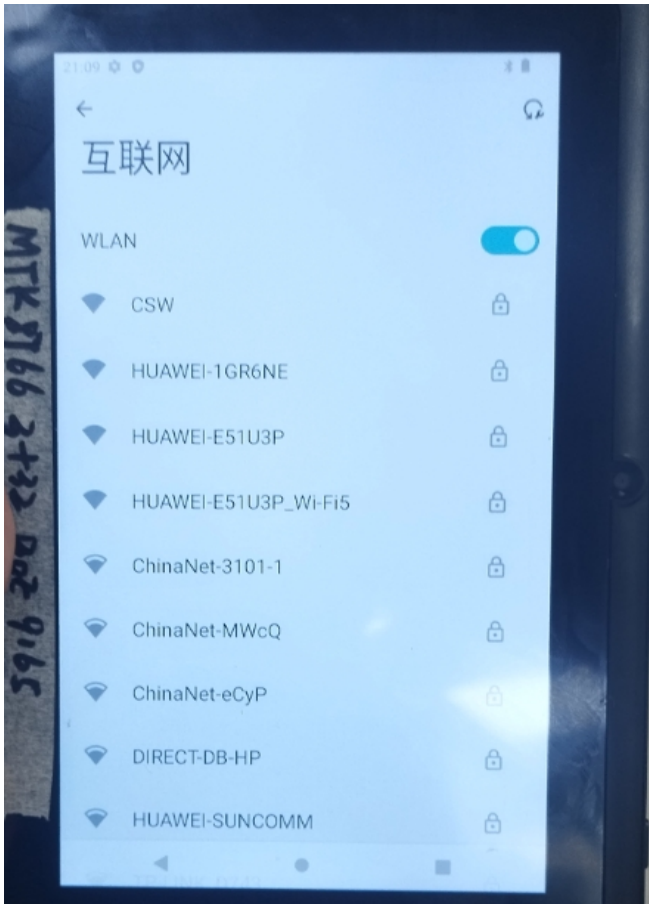
3, Antenna Gain Efficiency

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Point Values																										
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-4.28	-4.16	-4.31	-4.35	-5.22	-5.27	-5.13	-5.18	-6.09	-5.31	-5.09	-4.70	-4.09	-3.76	-3.09	-3.82	-4.20	-3.42	-3.62	-3.40	-3.80	-3.40	-3.70	-4.03	-3.84	-3.54
Peak EIRP (dBm)	-0.53	0.14	0.03	0.74	0.39	1.00	1.44	1.51	0.34	0.45	0.14	1.42	1.90	1.90	2.99	2.79	1.46	2.38	2.01	1.97	1.26	1.97	1.96	1.79	1.52	2.02
Directivity (dBi)	3.75	4.30	4.34	5.09	5.61	6.27	6.56	6.69	6.43	5.76	5.24	6.12	5.99	5.66	6.08	6.61	5.66	5.80	5.62	5.37	5.06	5.37	5.65	5.82	5.36	5.56
Efficiency (dB)	-4.28	-4.16	-4.31	-4.35	-5.22	-5.27	-5.13	-5.18	-6.09	-5.31	-5.09	-4.70	-4.09	-3.76	-3.09	-3.82	-4.20	-3.42	-3.62	-3.40	-3.80	-3.40	-3.70	-4.03	-3.84	-3.54
Efficiency (%)	37.30	38.30	37.00	36.70	30.10	29.70	30.70	30.40	24.60	29.40	30.90	33.90	39.00	42.10	49.10	41.50	38.00	45.50	43.50	45.70	41.60	45.70	42.70	39.50	41.30	44.30
Gain (dBi)	-0.53	0.14	0.03	0.74	0.39	1.00	1.44	1.51	0.34	0.45	0.14	1.42	1.90	1.90	2.99	2.79	1.46	2.38	2.01	1.97	1.26	1.97	1.96	1.79	1.52	2.02
NHPRP ±PI/4 (dBm)	-5.70	-5.62	-5.78	-5.87	-6.75	-6.84	-6.70	-6.75	-7.64	-6.86	-6.59	-6.47	-5.88	-5.59	-4.72	-5.38	-5.95	-5.04	-5.29	-5.07	-5.40	-4.93	-5.24	-5.63	-5.46	-5.08
NHPRP ±PI/6 (dBm)	-7.42	-7.34	-7.53	-7.59	-8.50	-8.58	-8.49	-8.54	-9.43	-8.67	-8.37	-8.09	-7.49	-7.27	-6.33	-6.95	-7.59	-6.56	-6.84	-6.60	-6.86	-6.32	-6.62	-7.01	-6.85	-6.45
NHPRP ±PI/8 (dBm)	-8.85	-8.75	-8.98	-9.00	-9.93	-10.00	-9.92	-9.95	-10.84	-10.11	-9.82	-9.54	-8.93	-8.82	-7.81	-8.41	-9.13	-7.95	-8.29	-8.03	-8.22	-7.61	-7.90	-8.27	-8.09	-7.68
Upper Hem. PRP (dBm)	-7.36	-7.45	-7.51	-7.60	-8.63	-8.72	-8.71	-8.78	-9.78	-8.74	-8.65	-7.19	-6.67	-6.36	-6.19	-6.69	-6.72	-6.49	-6.39	-6.32	-6.43	-6.53	-6.83	-6.74	-6.52	-6.47
Lower Hem. PRP (dBm)	-7.23	-6.92	-7.14	-7.13	-7.87	-7.88	-7.63	-7.66	-8.51	-7.94	-7.62	-8.29	-7.57	-7.21	-6.01	-6.98	-7.76	-6.37	-6.88	-6.50	-7.24	-6.29	-6.58	-7.36	-7.21	-6.63
Upper Hem. PRP (%)	18.36	18.01	17.73	17.37	13.71	13.44	13.46	13.23	10.53	13.36	13.63	19.09	21.52	23.12	24.02	21.45	21.29	22.42	22.97	23.35	22.77	22.22	20.73	21.17	22.27	22.54
Lower Hem. PRP (%)	18.94	20.34	19.30	19.35	16.35	16.30	17.26	17.14	14.08	16.08	17.31	14.83	17.50	18.99	25.06	20.02	16.73	23.05	20.53	22.37	18.88	23.50	21.96	18.35	18.99	21.72

4. Antenna Direction Diagram



5. Antenna Measurement



6. Environmental Treatment and Antenna Placement Position

